

Manual

Thermostable Pyrophosphatase

Research use only.

This product is intended for Research Use Only. This product is manufactured under ISO 13485:2016 Quality System Requirements and is available for use as a Raw Material for use in IVD applications. Please contact LGC for further details. For SDS and Certificate of Analysis please contact techsupport@lgcgroup.com.

BIOSEARCH™
TECHNOLOGIES

Manual

Thermostable Pyrophosphatase

1. Product description

Thermostable Pyrophosphatase is heat-tolerant (>95 °C) acid pyrophosphatase isolated from a thermophilic archaeobacterial species. The enzyme is expressed in a recombinant microbial system to allow for enhanced production and purification to homogeneity. Thermostable Pyrophosphatase selectively hydrolyses inorganic pyrophosphate into two orthophosphate ions under standard buffered conditions (pH 6-9) but will not degrade other bioactive molecules containing phosphodiester bonds (e.g. nucleotide triphosphates). Addition of Thermostable Pyrophosphatase to biochemical reactions that generate high levels of inorganic pyrophosphate as a byproduct (e.g. DNA polymerisation reactions) improves reaction kinetics and decreases non-specific degradation of end products by pyrophosphorolysis.

2. Concentration

Thermostable Pyrophosphatase: 2 U/μL

3. Storage and handling

Store at -20 °C upon arrival until provided expiration date. See individual component labels for additional storage recommendations.

4. Unit definition

One unit is the amount of Thermostable Pyrophosphatase enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (75 °C in 50 mM Tricine [pH 8.5], 1 mM MgCl₂, 0.32 mM PPI, reaction volume of 0.10 ml).

5. Ordering Information

Item number	Size
300TAPP-1	500 units
300TAPP-2	2,000 units

6. Further support

If you require any further support, please do not hesitate to contact our Technical Support Team: techsupport@lgcgroup.com

Research use only.




[@LGCBiosearch](https://www.instagram.com/LGCBiosearch) | biosearchtech.com

All trademarks and registered trademarks mentioned herein are the property of their respective owners. All other trademarks and registered trademarks are the property of LGC and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or any retrieval system, without the written permission of the copyright holder. © LGC Limited, 2025. All rights reserved. GEN/1208/SW/0225

BIOSEARCH™
TECHNOLOGIES